

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report

City: between Richardson and 123

Street: Cedar Ave. #9 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6273. The study was done in the East Bound lane on Cedar Ave. using counter #9 Red as shown on attached drawing. The counter was placed between Richardson and 123. The study began on 01/20/2004 at 12:00 PM and concluded on 01/21/2004 at 05:00 AM, lasting a total of 17 hours. Data was recorded in 60 minute time periods. The total recorded volume of traffic showed 36,420 vehicles passed through the location with a peak volume of 2,297 on 01/20/2004 at 03:00 PM and a minimum volume of 226 on 01/20/2004 at 12:00 PM. The AADT Count for this study was 51,416.

#### SPEED

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

Chart 1							
0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	0	37396	9	3	1	0	0

At least half of the vehicles were traveling in the 15 - 19 mph range or a lower speed. The average speed for all classified vehicles was 18 mph with 0.01 percent exceeding the posted speed of 25 mph. The HI-STAR found 0.00 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 15 mph and the 85th percentile was 19.25 mph.

#### CLASSIFICATION

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

Chart 2							
0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
0	3	36211	323	14	797	20	41

Most of the vehicles classified during the study were Small Trucks. The number of Passenger Cars in the study was 3 which represents 0.00 percent of the total classified vehicles. The number of Small Trucks in the study was 36,211 which represents 96.80 percent of the total classified vehicles. The number of Trucks/Buses in the study was 323 which represents 0.90 percent of the total classified vehicles. The number of Tractor Trailers in the study was 872 which represents 2.30 percent of the total classified vehicles.

#### HEADWAY

During the peak time period, on 01/20/2004 at 03:00 PM the average headway between the vehicles

was 1.57 seconds. The slowest traffic period was on 01/20/2004 at 12:00 PM. During this slowest period, the average headway was 15.86 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 23 and 48 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.